



CURRICULUM VITAE MELAIU OMBRETTA

OMBRETTA MELAIU
Ombretta.Melaiu@uniroma2.it

WORK EXPERIENCES

February 2022– now:

- 1) RTDB at University of Rome Tor Vergata.
- 2) Affiliated researcher at Bambino Gesù Children's Hospital (Rome).

June 2020– January 2022:

Research Fellowship at Bambino Gesù Children's Hospital (Rome).

June 2017– May 2020:

- 1) RTDA at University of Pisa.
- 2) Affiliated researcher at Bambino Gesù Children's Hospital (Rome).

January 2017– May 2017:

Research Fellowship Fondazione Umberto Veronesi at Bambino Gesù Children's Hospital, Oncohematology Department. **Activities:** Dissecting the immune heterogeneity of neuroblastoma microenvironment to improve patient risk stratification and therapy.

May 2015– December 2016:

Research Fellowship at Bambino Gesù Children's Hospital, Oncohematology Department. **Activities:** Characterization of tumor-infiltrating T lymphocytes in therapy-resistant neuroblastoma patients.

April 2013–April 2015:

Research Fellowship at Pisa University, Department of Biology, Genetics; **Activities:** Study of new biomarkers for the clinical surveillance of workers previously exposed to asbestos.

April 2012–December 2012:

Visiting scientist at Imperial College, Oncology and Surgery Department., London, UK; **Activities:** Identification and characterization of genes involved in the malignant pleural mesothelioma.

EDUCATION

September 2013–November 2017:

Specialization in Pathology and Clinical Biochemistry, Roma Tor Vergata University. Title of thesis: "Significato clinico delle cellule immunitarie infiltranti tessuti di neuroblastoma. Mark: 50/50 with Honours. Tutors: Prof. Sergio Bernardini/Doriana Fruci.

January 2010–April 2013:

Research Doctorate School in Biological and Molecular Sciences, Pisa University. Title of thesis: "Identification and characterization of genes involved in the malignant pleural mesothelioma". Tutor: Prof. Landi.

October 2010–November 2010:

Qualification as Professional Biologist (Registration Number: 064338)

October 2007- October 2009:

Master degree in General Physiopathological Sciences - Biology 6/S; Pisa University; Title of thesis: "Cardio-metabolic biomarkers and myocardial infarction: study in an experimental animal model". Mark: 110/110 with Honours. Tutor: Dr. Giannessi.

October 2004- October 2007:

Bachelor of Biological and Molecular Science, Pisa University; Title of thesis: "Adiponectin: a new indicator of cardiovascular risk". Mark: 110/110 with Honours; Tutor: Dr. Giannessi.

ORAL AND POSTER PRESENTATIONS:

1) 17th international conference on computational intelligence methods for bioinformatics and biostatistics CIBB. February 2021: **Oral presentation:** Cellular and gene signatures of tumor-infiltrating dendritic cells and natural killer cells predict favorable clinical outcome of neuroblastoma. **Melaiu O.**

2) ANR webinars January 25- 26-27, 2021.

Oral presentation: Cellular and gene signatures of tumor-infiltrating dendritic cells and natural killer cells predict favorable clinical outcome of neuroblastoma. **Melaiu O.**

3) 4th ANNUAL MEETING AAC New technologies and strategies to fight cancer. Rome, 2019.

Poster: New strategies to reprogram dysfunctional tumor- infiltrating T cells in paediatric high-risk neuroblastoma.

Lucarini V, **Melaiu O**, De Ninno A, Businaro L, Fruci D.

4) Goodbye Flat Biology 2018. Berlin

Poster: "3D neuroblastoma cultures to define tumor-infiltrating T cell dysfunction and reprogramming".

Lucarini V, **Melaiu O**, Compagnone M, Ziccheddu G, Vinci M, Pistoia V, Cifaldi L, Fruci D

5) European Congress of Immunology 2018. Amsterdam

Poster: "Clinical relevance of intratumoral dendritic cells in neuroblastoma".

Melaiu O, Chierici M, Lucarini V, Compagnone M, Ziccheddu G, Jurman G, Boldrini R, Castellano A, Furlanello C, Locatelli F, Fruci D

6) ANR2018 Conference. 2018 San Francisco. USA

Poster: " Immune microenvironment in neuroblastoma: clinical and therapeutic relevance."

Melaiu O, Chierici M, Boldrini R, Jurman G, Castellano A, Furlanello C, Locatelli F, Fruci D.

7) Giornata Romana di Immunologia. 2017. Roma.

Oral Presentation: "Dissecting the tumor immune microenvironment in neuroblastoma"

Melaiu O.

8) 4th Neuroblastoma Research Symposium. 2015, Newcastle, UK.

Poster: "Tumor-infiltrating T lymphocytes improve clinical outcome of therapy-resistant neuroblastoma."

Melaiu O, Mina M, Boldrini R, Pezzullo M, Furlanello C, Castellano A, Locatelli F, Fruci D.

9) IV Workshop AIEOP in lab. 2015, Napoli.

Oral Presentation: "Ruolo dei linfociti T infiltranti il tumore come potenziali marcatori prognostici e terapeutici in pazienti affetti da forme aggressive di neuroblastoma."

Melaiu O.

10) Fisv 2014, Pisa.

Poster: "Are MSLN, CFB and CCNO cancer genes of mesothelioma?"

Melaiu O, Barone E, Cipollini M, Figlioli G, Paolicchi E, Pellè L, De Santi C, Mutti L, Cristaudo A, Bonotti A, Foddìs R, Gemignani G, Landi S. Premiato come miglior poster.

11) A.G.I. 2013 Cortona.

Poster: "Role of mesothelin and calretinin in malignant pleural mesothelioma."

Melaiu O, Stebbing J, Lombardo Y, Bracci E, Pellegrini S, Melissari E, Uehara N, Bonotti A, Cristaudo A, Foddìs R, Lucchi M, Mutti L, Barale R, Gemignani F, Giamas G, Landi S.

12) Osservatorio Nazionale Amianto (ONA) Convegno giuridico-scientifico, 2013 Pisa.

Oral Presentation: “Le ultime acquisizioni scientifiche in materia di mesotelioma.”

Melaiu O.

13) Società Italiana di Mutagenesi Ambientale (S.I.M.A.) 2013 Padova.

Oral presentation: “Comparative Genomic Hybridization Studies on Mesothelioma show a Parallel Fate of 1p21-1p22 and 9p21 Bands and a Chromosomally Stable Sub-Group.” **Melaiu O.**

14) Fisv, 2012 Roma.

Poster: “Screening of MPM patients for activating somatic mutations within PDGFR-beta”.

Melaiu O, Fontanini G, Costa B, Boldrini L, Mutti L, Sensi E, Bendinelli S, Bracci E, Lucchi M, Favoni R, Gemignani F, Landi S.

15) Imig, 2012 Boston.

Poster: “Screening of MPM patients for activating somatic mutations within PDGFRB”.

Melaiu O, Fontanini G, Costa B, Boldrini L, Mutti L, Sensi E, Bendinelli S, Bracci E, Lucchi M, Favoni R, Gemignani F, Landi S.

16) S.I.G.U., 2011 Milano.

Poster: “Identification and characterization of genes involved in the malignant pleural mesothelioma.”

Melaiu O, Cristaudo A, Bonotti A, Bruno R, Lucchi M, Foddìs R, Gemignani F, Landi S.

17) Società Italiana di Mutagenesi Ambientale (S.I.M.A.) 2011, Parma.

Oral presentation: “Identification and characterization of genes involved in the malignant pleural mesothelioma.”

Melaiu O.

18) EEMS, 2011 Barcellona.

Poster: “Analysis of potential target genes involved in carcinogenesis of malignant pleural mesothelioma.”

Melaiu O, Bruno R, Bonotti A, Gemignani F, Lucchi M, Foddìs R, Cristaudo A, Landi S.

AWARDS:

1) 2023: Research merit mention awarded by the Aiace Foundation

2) 2022: Award “Contributi premiali per i ricercatori e assegnisti di ricerca per rafforzarne la condizione professionale e potenziare il sistema della ricerca del Lazio - Obiettivo di Policy 4 “Un’Europa più sociale”

3) Qualification for second class professor: From 31/01/2022 to 31/01/2031 SSD 06/N1 - Scienze Delle Professioni Sanitarie E Delle Tecnologie Mediche Applicate (ASN session 2021/2023);

From 31/01/2022 to 31/01/2031 SSD 06/A2 Patologia Generale E Patologia Clinica (ASN session 2021/2023);

From 31/01/2022 to 31/01/2031 SSD 05/I1 Genetica (ASN session 2021/2023).

4) 2021: Competition winner as Assistant Professor (RTDB) at Sapienza University of Rome, Rome, Italy, SSD 06/N1.

5) 2021: Fondazione Umberto Veronesi Award.

6) 2018: TRAVEL GRANT to European Congress of Immunology 2018 (Amsterdam).

7) 2014: Award for Best poster presentation at the XIII Congress of the Italian Federation of Life Sciences (Pisa Italy. Title: Are MSLN, CFB and CCNO cancer genes of mesothelioma?).

Roma, 19/05/2023

Ambrogio Melaiu